

**Study Number:** MOG08002B  
**Test Type:** MOG  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Sprague-Dawley

**R06: Andrology Summary**  
**Test Compound:** Bisphenol AF  
**CAS Number:** 1478-61-1

**Date Report Requested:** 07/17/2020  
**Time Report Requested:** 11:00:33  
**Lab:** RTI

**Study Number:**

MOG08002B

**Study Gender:**

Both

**PWG Approval Date**

See web page for date of PWG Approval

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Male							
Generation	Terminal Sac	Cohort	Treatment Groups (ppm)				
			0	338	1125	3750	
F1	PND 152 - 154	Fertility Males	No. Examined (Litters)	21 (21)	23 (23)	21 (21)	19 (19)
			Testis Weight (g)	2.039 ± 0.026 **	1.965 ± 0.028	1.876 ± 0.047 **	1.506 ± 0.046 **
			Spermatid Head Count (millions)	246.4 ± 8.5	252.6 ± 8.1	237.9 ± 7.2	222.7 ± 7.6
			Spermatid Head Concentration (millions/gram tissue)	120.9 ± 3.9 **	128.5 ± 3.5	128.0 ± 3.9	150.0 ± 6.5 **
			Percent Motile Sperm	65.0 ± 3.6	64.4 ± 2.9	57.5 ± 3.5	63.4 ± 3.8
			Percent Progressively Motile Sperm	53.0 ± 3.1	50.3 ± 2.1	45.7 ± 3.2	50.7 ± 3.3
			Epididymis Weight (g)	0.673 ± 0.009 **	0.648 ± 0.010	0.602 ± 0.013 **	0.419 ± 0.016 **
			Cauda Epididymis Weight (g)	0.262 ± 0.004 **	0.249 ± 0.004	0.222 ± 0.006 **	0.130 ± 0.007 **
			Cauda Epididymis Sperm Count (millions)	221.5 ± 8.3 **	207.5 ± 6.5	179.9 ± 11.4 **	94.0 ± 8.1 **
			Cauda Epididymis Sperm Concentration (millions/gram tissue)	843.4 ± 27.3 **	835.2 ± 26.3	796.9 ± 38.3	704.1 ± 27.1 **

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Male						
Generation	Terminal Sac	Cohort	Treatment Groups (ppm)			
			0	338	1125	
F2	PND 91 - 93	No. Examined (Litters)	51 (17)	69 (19)	27 (7)	
		Testis Weight (g)	2.014 ± 0.023 **	1.855 ± 0.026 **	1.851 ± 0.041 **	
		Spermatid Head Count (millions)	262.3 ± 6.2	243.4 ± 5.6 *	250.2 ± 6.0 *	
		Spermatid Head Concentration (millions/gram tissue)	130.3 ± 3.0	131.3 ± 2.7	135.7 ± 3.0	
		Percent Motile Sperm	64.9 ± 3.7	65.8 ± 1.9	64.5 ± 4.4	
		Percent Progressively Motile Sperm	45.4 ± 2.6	45.6 ± 1.6	47.9 ± 3.6	
		Epididymis Weight (g)	0.584 ± 0.009 **	0.551 ± 0.009 *	0.501 ± 0.010 **	
		Cauda Epididymis Weight (g)	0.211 ± 0.005 **	0.198 ± 0.003 **	0.171 ± 0.005 **	
		Cauda Epididymis Sperm Count (millions)	186.6 ± 8.6 **	175.0 ± 6.2	152.9 ± 8.7 *	
		Cauda Epididymis Sperm Concentration (millions/gram tissue)	875.3 ± 26.5	880.2 ± 21.2	892.1 ± 34.2	

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## LEGEND

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Data are displayed as mean  $\pm$  SEM.

Statistical analysis of the F1 organ weight endpoints performed using Jonckheere trend test and Williams or Dunnett for pairwise tests. Statistical analysis for all other F1 endpoints performed using Jonckheere trend test and Shirley or Dunn for pairwise tests.

Statistical analysis of F2 organ weight endpoints performed using linear mixed models with the dam ID as the random effect for both trend and pairwise test, and using the Dunnett-Hsu adjustment for multiple comparisons. For endpoints other than organ weights for F2 animals, a bootstrapped Jonckheere trend test was used, and pairwise comparisons were done using the Datta-Satten modified Wilcoxon test with Hommel adjustment for multiple comparisons

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

\* Statistically significant at  $P \leq 0.05$

\*\* Statistically significant at  $P \leq 0.01$

Both Spermatid Head measurements for one animal in the 1125 ppm group, both Spermatid Head measurements as well as Epididymis and Testis Weights for one animal in the 3750 ppm group, and Epididymis Weight measurements for one animal in the control group and one animal in the 338 ppm group were excluded as outliers.

The F1 3750 ppm animals were unable to produce a F2 generation, hence this group was not evaluated.

**\*\* END OF REPORT \*\***